

## APPENDIX

36. (Amended) A *Shigella* comprising:

- (a) an inactivated *icsA* gene, inactivated other than only by means of a transposon inserted into the gene; and
- (b) an inactivated *aerobactin* or *enterochelin* gene, inactivated other than only by means of a transposon inserted into the gene;

wherein the *Shigella* is defective in spread within infected cells and from infected to uninfected cells of the host.

41. (Amended) The *Shigella* of claim 36 or 37, comprising inactivated ent F, Fep E, Fep C, or Fep D subunit genes of the enterochelin operon.

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